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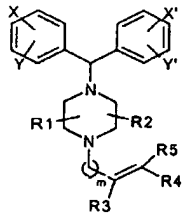
(54) Title: 4-(DIARYLMETHYL)-1-PIPERAZINYL DERIVATIVES



(I)

(57) Abstract: A compound of formula I Formula Iwherein X, Y, X' & Y' are selected from hydrogen, halogen, substituted or unsubstituted alkyl (linear, branched or cyclo), aryl, alkyloxy and haloalkyl group; R1, R2, R3 & R4 are selected from hydrogen, substituted or unsubstituted alkyl groups (linear, branched or cyclo), aryl, heteroaryl groups or aralkyl groups, heterocycles containing one or more of hetero atoms (viz., N, S, O), substituted or unsubstituted alkenyl or alkynyl groups of carbon 2 to 6, wherein the substituents R1 & R2 on the piperazinyl moiety are either syn or anti to each other and optionally R3 and R4 together with the carbons to which they are attached form a monocyclic saturated or aryl or substituted aryl or heteroaryl or substituted heteroaryl ring containing one or more hetero atoms selected from N, S and O with a ring size ranging from 3 to 6; with a proviso that when R3 & R4 together do not form part of a ring they may exist in either E or Z configuration;R5 is (CH2)n-O-CH2-CO-Z wherein n is 1 to 6; Z is selected from OH, OR, NRR', N(OR)R', N(R)-N(R)R' and wherein R & R' are selected from hydrogen, substituted or unsubstituted alkyl groups (linear, branched or cyclo), aryl, heteroaryl groups or aralkyl groups, heterocycles containing one or more of hetero atoms (viz., N, S, O), substituted or unsubstituted alkenyl or alkynyl groups of carbon 2 to 6; and B is selected from -(CH2)n- (n is 1 to 6) and -(CH2)x-D-(CH2)y where D is O, NR, S or SO2, x and y are independently 1 to 6; and m is selected from 1 to 6; and pharmaceutically acceptable salts thereof.

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